IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. – 6. (Canceled)

7. (Currently Amended) A magnetic-tape recording apparatus for recording digital data on a magnetic tape by a rotating head, comprising:

first obtaining means for obtaining first-group data, including video data, audio data, or search data, wherein the first-group data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

second obtaining means for obtaining second-group data, including sub-code data related to the first-group data;

third obtaining means for obtaining third-group data, including ~~audio data for after-recording~~ track information;

synthesizing means for synthesizing the first-group data, ~~and~~ the second-group data and the third group data such that they are continuous without any space disposed therebetween ~~and for synthesizing the third-group data so as to form a gap between the third-group data and the first-group data,~~ on a track in the magnetic tape; and

sending means for sending data synthesized by the synthesizing means to the rotating head in order to record the data on the magnetic tape.

8. (Original) A magnetic-tape recording apparatus according to claim 7, wherein the video data is high-quality video data compressed by an MP@HL or MP@H-14 method.

9. (Currently Amended) A magnetic-tape recording method for a magnetic-tape recording apparatus for recording digital data on a magnetic tape by a rotating head, comprising:

a first obtaining step of obtaining first-group data, including video data, audio data, or search data, wherein the first-group data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

a second obtaining step of obtaining second-group data, including sub-code data related to the first-group data;

a third obtaining step of obtaining third-group data, including ~~audio data for after-recording~~ track information;

a synthesizing step of synthesizing the first-group data, ~~and~~ the second-group data and the third group data such that they are continuous without any space disposed therebetween ~~and of synthesizing the third group data so as to form a gap between the third group data and the first group data,~~ on a track in the magnetic tape; and

a sending step of sending data synthesized by a process in the synthesizing step to the rotating head in order to record the data on the magnetic tape.

10. (Currently Amended) A recording medium storing a computer-readable program for controlling a magnetic-tape recording apparatus which records digital data on a magnetic tape by a rotating head, the program comprising:

a first obtaining step of obtaining first-group data, including video data, audio data, or search data, wherein the first-group data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

a second obtaining step of obtaining second-group data, including sub-code data related to the first-group data;

a third obtaining step of obtaining third-group data, including ~~audio data for after-recording~~ track information;

a synthesizing step of synthesizing the first-group data, ~~and~~ the second-group data and the third group data such that they are continuous without any space disposed therebetween ~~and of synthesizing the third-group data so as to form a gap between the third-group data and the first-group data,~~ on a track in the magnetic tape; and

a sending step of sending data synthesized by a process in the synthesizing step to the rotating head in order to record the data on the magnetic tape.

11. (Canceled)